

MEMO. TO LIBRARIANS.

NOTICE OF AMENDMENT.

SPECIFICATION No. 10,555, A.D. 1891.

This Specification has been Amended under Sections 18 to 21 of the Patents, Designs, and Trade Marks Act, 1883. For Amended Specification *see* Star Number.

(Librarians are requested to attach this Slip to the printed copy of the above Specification.)

PATENT OFFICE, LONDON.

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N^o 10,555



A.D. 1891

Date of Application, 20th June, 1891

Complete Specification Left, 19th Apr., 1892—Accepted, 4th June, 1892

PROVISIONAL SPECIFICATION.

Improvements in the Manufacture of Medicinal Capsules, and in Means and Appliances for Effecting the same.

, WILLIAM OPPENHEIMER of 1 and 3 Sun Street, Finsbury, London E.C. Merchant, do hereby declare the nature of my said invention to be as follows:—

My invention relates to the manufacture of the medicinal capsules described in Specification No. 13,221, dated August 23rd 1890; and the object of my invention is to effect improvements in the manufacture of such capsules, in charging the same with exact quantities of medicine.

As described in the said recited Specification, the outer casing of the capsules consists of two shallow spherical segments, united together, such casing being made of solvent materials such as gelatine, gum, or any other suitable substance (hereinafter referred to as gelatine) to which flavoring may be added for imparting agreeable taste to the mouth on their passage to the throat.

The drugs are enclosed in this casing, completely isolated from the air, so as to prevent their therapeutic value being affected by atmospheric influence.

In carrying out my invention, I take a sheet of perfectly flat glass, metal or other suitable material (hereinafter called a "plate") and lay upon the same a sheet of gelatine. I then form a raised outer edge of metal, wood, or other suitable material, round three sides of the sheet of gelatine; and, resting on these raised portions, I place another plate. This forms a narrow trough with an open

The trough so prepared is then placed in a clamping press, and the two plates are pressed towards each other in perfectly parallel lines. It is then ready to receive the medicine which is poured into the trough, between the sheet of gelatine on the one side, and the uncovered plate on the other. When filling with colored medicine, the trough is shaken, while being filled, in order to cause the medicine to be evenly distributed. The uncovered plate is then removed from the trough of medicine, and a thin sheet of gelatine is laid evenly upon the medicine, which is thus enclosed between two sheets of gelatine.

The preparation is then removed from the remaining plate and placed between metal matrix plates, having a number of matrixes formed in each plate, in exactly corresponding positions to form the two sides of the finished capsules. The cutting edges are formed round each pair of matrixes, whereby the capsules, with the enclosed medicine, are separated from the remainder of the material, by means of pressure; a suitable press being used for the purpose.

When the capsules are charged with liquid medicine, one sheet of gelatine is laid flatly upon a suitable surface: the raised edge is formed all round: the medicine is then poured upon the same, and the second sheet of gelatine is applied thereto. The further process being effected as hereinbefore described.

Dated 20th June 1891.

GEO. DOWNING,
8, Quality Court, London, W.C., Agent for Applicant.

COMPLETE SPECIFICATION.

Improvements in the Manufacture of Medicinal Capsules, and in Means and Appliances for Effecting the same.

I, WILLIAM OPPENHEIMER, late of 1 and 3 Sun Street, Finsbury, London E.C., but now of 14 Worship Street, London E.C., Merchant, do hereby declare the nature of my said invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

My invention relates to the manufacture of the medicinal capsules described in the Specification No. 13,221, dated August 23rd 1890, and the object of my present invention is to effect improvements in the manufacture of such capsules, and in charging the same with exact quantities of medicine.

As described in the said recited Specification, the outer casing of the capsules consists of two shallow spherical segments, united together, such casing being formed of solvent materials such as gelatine, gum, or any other suitable substance (hereinafter referred to as gelatine) to which flavoring may be added for imparting an agreeable taste to the mouth on their passage to the throat.

The drugs are enclosed in this casing, completely isolated from the air, so as to prevent their therapeutic value being affected by atmospheric influence.

In carrying out my invention, I take a perfectly flat plate of convenient dimensions. This plate may be made of glass, metal, or other suitable material. Upon this plate I lay a thin sheet of gelatine. I then form a raised outer edge of metal, wood, or other suitable material, round three sides of the sheet of gelatine; and, resting upon these raised portions, I place another plate of the same material as the first mentioned plate. This combination forms a narrow trough with an open top. The trough so prepared is then placed in a clamping press, and the two plates are pressed towards each other, in perfectly parallel lines. The trough is then ready to receive the medicine, which is poured into it; between the sheet of gelatine on the one side and the uncovered plate on the other. When filling with powdered medicine, the trough is shaken, while being filled, in order to cause the medicine to be evenly distributed. The uncovered plate is then removed from the layer of medicine, and a thin sheet of gelatine is laid evenly upon the medicine, which is thus enclosed between two sheets of gelatine.

The preparation is then removed from the remaining plate, and placed between two metal matrix plates, having a number of matrices formed in each plate, in exactly corresponding positions to form the two sides of the finished capsules. Raised cutting edges are formed round each pair of matrices, whereby the capsules, with the enclosed medicine, are separated from the remainder of the material, by means of pressure; a suitable press, of ordinary construction, being used for the purpose.

When the capsules are intended to be charged with liquid medicine, one sheet of gelatine is laid flatly upon a suitable surface: the raised edge is formed all round: the medicine is then poured upon the same, and the second sheet of gelatine is applied thereto. The further process being effected as herein before described.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. The process of manufacture of medicinal capsules, herein before described that is to say, the combination of 2 plates and a sheet of gelatine, the plates being clamped in positions parallel with each other by means of an interposed distance frame, for gauging and securing the accurate distribution of the medicine in the capsules the imposition of a second sheet of gelatine and the cutting and finishing of the capsules in the matrices, substantially as herein before described.

Oppenheimer's Improvements in the Manufacture of Medicinal Capsules, &c.

2. The apparatus to be used in the process of manufacture of medicinal capsules herein before described, for gauging the amount and securing the accurate disposition of medicine in the capsules consisting of a pressure frame and two plates with an interposed distance frame substantially as herein before described.

5 3. The apparatus to be used in the manufacture of medicinal capsules herein before described for cutting and finishing the medicinal capsules consisting of the combination of two metal plates, having any suitable number of matrices formed therein, in exactly corresponding positions, to form the two sides of the finished capsules; raised cutting edges being formed at the circumference of each pair of
10 matrices, substantially as herein before described.

4. The improvements in the manufacture of medicinal capsules, and in means and appliances for effecting the same, substantially as hereinbefore described.

Dated 19th April 1892.

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GEO. DOWNING,
8, Quality Court, London, W.C., Agent.

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